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	PU DIO DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8447	
APPLICATION NO.	FILING DATE		O59992		
09/606,678	06/30/2000	Yoshikazu Nishii	Yoshikazu Nishii Q59992		
7590 07/17/2003  Sughrue Mion Zinn Macpeak & Seas 2100 Pennsylvania Avenue N W Washington, DC 20037-3202			EXAMINER THORNTON, KRISANNE MARIE		
		•	1744	3	
			DATE MAILED: 07/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

					VA.	)			
		Application No.	<u></u>	Applicant(s)					
Office Action Summary		09/606,678		NISHII ET AL.					
		Examiner		Art Unit					
		Krisanne M. Thorn	ton	1744					
	Th MAILING DATE of this communication app	ears on the cover	sheet with th	correspondenc a	ddress	ı			
Perio	d for Reply					[			
TI - - -	SHORTENED STATUTORY PERIOD FOR REPL' HE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howev y within the statutory minir will apply and will expire S	er, may a reply be num of thirty (30) o IX (6) MONTHS fr	timely filed days will be considered tim om the mailing date of this NED (35 U.S.C. § 133).	nely. communication.				
Statu	— in the stanta filed on	•							
		 nis action is non-fir	nal.						
	2a) This action is FINAL.  This action is FINAL.  Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
	osition of Claims								
4	)⊠ Claim(s) <u>1-14</u> is/are pending in the applicatio	n.							
	4a) Of the above claim(s) is/are withdra	awn from consider	ation.						
. 5	i) Claim(s) is/are allowed								
6	s)⊠ Claim(s) <u>1-14</u> is/are rejected.								
\ <del>-</del>	r) ☐ Claim(s) is/are objected to.								
	B) Claim(s) are subject to restriction and/	or election require	ment.						
	lication Papers								
	9)☐ The specification is objected to by the Examin	ier. 	tod to by the l	Examiner					
1. 10	The drawing(s) filed on is/are: a)☐ acc Applicant may not request that any objection to	epted or b) object	ld in abevance	See 37 CFR 1.85	(a).				
	Applicant may not request that any objection to a high size of the proposed drawing correction filed on	ine drawing(s) be no	ed b)∏ disa	oproved by the Exa	miner.	١			
1	1) The proposed drawing correction filed oil	is. a) approv	ction.						
	If approved, corrected drawings are required in								
12) The oath or declaration is objected to by the Examiner.									
Pric	ority under 35 U.S.C. §§ 119 and 120	ian priority under 3	5 U.S.C. § 1	19(a)-(d) or (f).					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
	a)⊠ All b)□ Some * c)□ None of:	onto hove been rec	eived						
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
1	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
- 1	a) ☐ The translation of the foreign language   5)☐ Acknowledgment is made of a claim for dom	provisional applica	ition has bee	n received.					
1	achment(s)								
1)[	Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(	4) [ 5) [ 5) 6) [	Notice of Inf	mmary (PTO-413) Pap ormal Patent Applicatio	er No(s) n (PTO-152)				

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### **DETAILED ACTION**

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5, 7-8 and 11-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 5, the use of "dense" and "sparse" is found to be vague and indefinite because it is unclear as to what would actually constitute either "dense" or "sparse".

Claims 7-8 are found to be vague and indefinite because they recite method phraseology which fails to properly further limit the structure within the apparatus claims.

With respect to claim 11, "the fiber-shaped base members" lack proper antecedent basis.

Those claims not specifically referred to, are included in this rejection because they depend from claims containing rejected subject matter.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishii et al., U.S. patent No. 6,468,428 B1.

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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Claims 1-3, 7-8 and 11-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Peill et al., U.S. patent No. 5,875,384.

Peill et al., teach a photocatalyst filter bundle formed by a plurality of fibers with a photoconductive core and having a photocatalyst layer thereon. The fibers are bundled together with spaces therebetween to facilitate fluid flow therethrough in either a parallel or perpendicular direction for the treatment of that fluid.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisanne M. Thornton whose telephone number is 703-308-3914. The examiner can normally be reached on Mon.-Wed. 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 703-308-2920. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7718 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

KRISANNE THORNTON
PRIMARY EXAMINER

July 14, 2003